# BEST AVAILABLE COPYDocket No. 54008.8080.US00 P01-0007

### In the Claims:

Please amend claim 1 and cancel claims 29-32. A complete set of claims, as amended, is attached.

#### COMPLETE SET OF PENDING CLAIMS:

(Currently Amended) An apparatus for processing a workpiece comprising:

a liquid supply source;

one or more liquid outlets disposed to apply a layer of liquid onto the workpiece;

a liquid flow line extending between the liquid supply source and the one or more liquid outlets for carrying liquid to the liquid outlets;

at least one heater for heating the liquid before it is applied onto the workpiece;

an ozone gas supply system which provides ozone gas around the workpiece while the layer of heated liquid is on the workpiece; and

a sonic energy source associated with the liquid outlets for introducing sonic energy to the workpiece through the layer of liquid on the workpiece.

- 2-3. (Cancelled).
- 4. (Previously presented) The apparatus of claim 1 wherein the sonic energy source is associated with the liquid outlets, to provide sonic energy to the workpiece via liquid moving out of the outlets and onto the workpiece.
- 5. (Original) The apparatus of claim 1 wherein the sonic energy source comprises a sonic transducer including a focusing chamber for concentrating sonic energy onto the workpiece.
- 6. (Original) The apparatus of claim 1 where the liquid supply source comprises a liquid reservoir, and where the heater heats the liquid in the reservoir.

- 7. (Original) The apparatus of claim 1 where the liquid supply source includes a liquid selected from the group consisting of, ammonium hydroxide, sulfuric acid, hydrochloric acid, hydrofluoric acid, a surfactant, de-ionized water, and a combination thereof.
- 8. (Original) The apparatus of claim 1 further comprising a chamber around the workpiece and with the ozone gas supply connected to the chamber to provide ozone gas around the workpiece in the chamber, with the ozone provided as a dry gas or in a liquid.
- 9 (Original) The apparatus of claim 8 further comprising a re-circulation liquid line extending between the chamber and the liquid supply source.
- 10. (Original) The apparatus of claim 8 further comprising a rotor assembly in the chamber for rotating the workpiece.
- 11. (Original) The apparatus of claim 1 where the liquid outlets comprise liquid nozzles for spraying the heated liquid onto the workpiece.
- 12. (Original) The apparatus of claim 1 further including means for controlling the thickness of a layer of the liquid formed on the surface of the workpiece.
- 13. (Original) The apparatus of claim 12 where the means for controlling comprises a liquid flow control system for controlling the flow of liquid onto the workpiece.
- 14. (Original) The apparatus of claim 13 where the liquid flow control system includes spray nozzles.
- 15. (Original) The apparatus of claim 12 where the means for controlling comprises a rotor for holding and rotating the workpiece.

16. (Original)) An apparatus for treating the surface of a workpiece comprising:

a liquid reservoir for holding a process liquid;

a process chamber;

a workpiece holder within the process chamber;

liquid spray nozzles within the process chamber disposed to spray liquid onto the workpiece held by the workpiece holder;

a liquid flow line extending between the liquid reservoir and the liquid spray nozzles;

an ozone generator for generating a supply of ozone;

one or more ozone supply lines extending from the ozone generator to the process chamber;

at least one heater for heating the process liquid; and

- a sonic energy source on the workpiece holder for introducing sonic energy to the workpiece.
- 17. (Previously Presented) The apparatus of claim 16 where the workpiece support holds the workpiece in a horizontal orientation.
- 18. (Previously Presented) The apparatus of claim 16 further comprising a valve connecting to a spent liquid line extending from the process chamber, to the liquid reservoir, and to a drain, with the valve switchable between a first position, wherein spent liquid from the process chamber is directed back to the reservoir, and a second position, wherein spent liquid from the process chamber is directed to the drain.

19 - 32. (Cancelled)

# This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

### **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:
□ BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

## IMAGES ARE BEST AVAILABLE COPY.

OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.